

Wisker, George

NRG Middle town
Metals summary

From: Spooner, Robert E. [Robert.Spooner@nrenergy.com]

Sent: Wednesday, March 19, 2008 8:38 AM

To: Wisker, George

Subject: River Core Sampling Summary

George, here is the quick summary. I'll have the real report up to you probably early next week. We got a little stalled with our Tidewater Mucket issue, but we have that under control. I'll have the COP to Carlos early next week too. We're thinking a May dredge start anyway, so hopefully that will give plenty of time for Carlos to issue the COP.

Let me know if you have any questions.

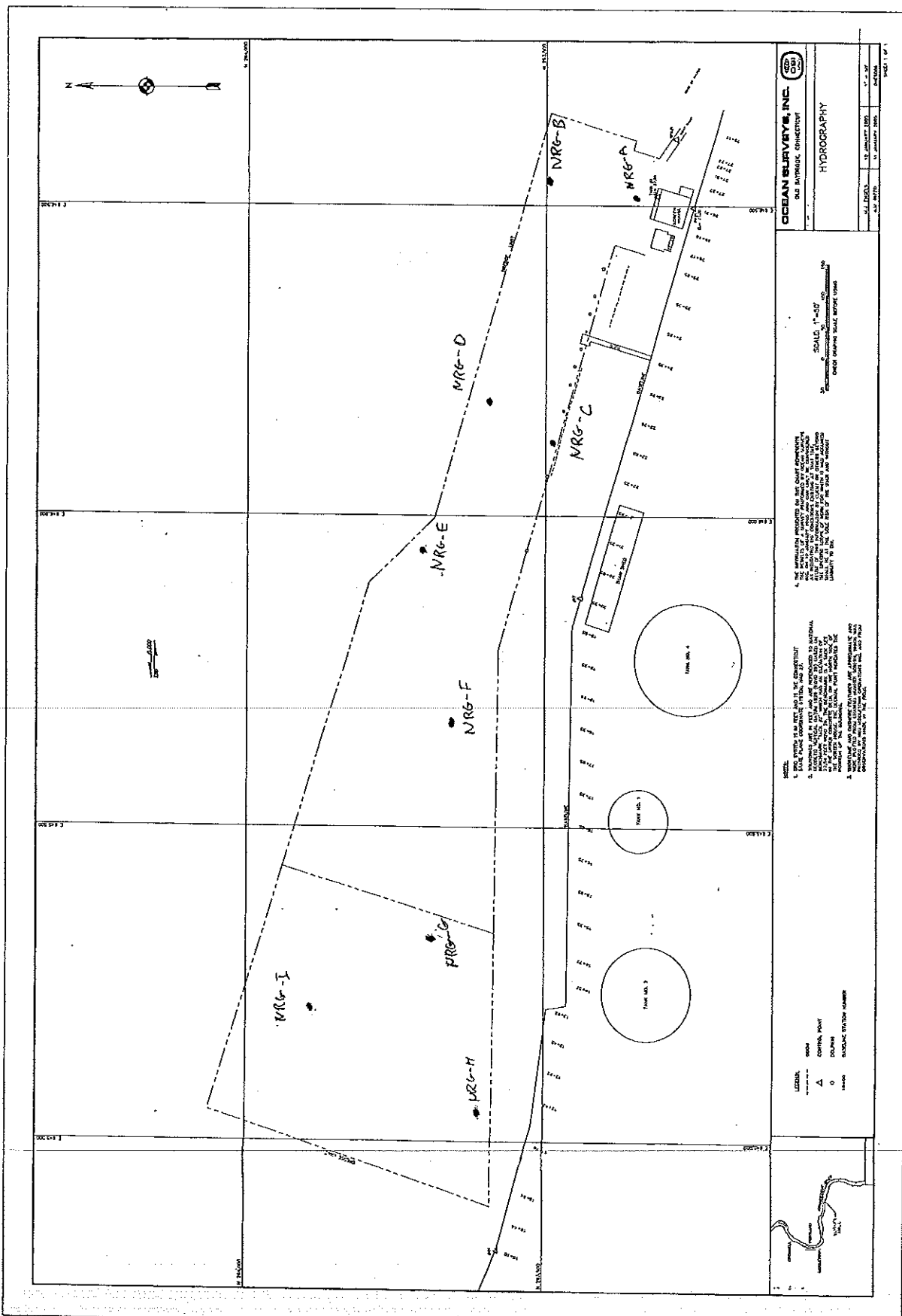
Bob

						A	B	C	D
CONSTITUENT	P/F	UNITS	GB PMC	I/C DEC	Res DEC				
Metals									
Silver	Total	(mg/kg)	NE	10000	340	<0.36	<0.38	<0.34	<0.36
Arsenic	Total	(mg/kg)	NE	10	10	<0.07	1	1.3	1.8
Barium	Total	(mg/kg)	NE	140000	4700	19	18.1	14.7	18
Beryllium	Total	(mg/kg)	NE			<0.29	<0.3	<0.27	<0.29
Cadmium	Total	(mg/kg)	NE	1000	34	<0.36	<0.38	<0.34	<0.36
Chromium	Total	(mg/kg)	NE	100	100	9.98	10.4	9.72	9.57
Copper	Total	(mg/kg)	NE			5.67	4.92	3.81	4.0
Mercury	Total	(mg/kg)	NE	610	20	<0.06	<0.07	<0.07	<0.06
Nickel	Total	(mg/kg)	NE	7500	1400	12.6	13.6	11.7	13.6
Lead	Total	(mg/kg)	NE	1000	500	6.83	7.19	6.37	6.35
Antimony	Total	(mg/kg)	NE			<3.6	<3.8	<3.4	<3.6
Selenium	Total	(mg/kg)	NE	10000	340	<1.8	<1.9	<1.7	<1.8
Thallium	Total	(mg/kg)	NE	160	5.4	<3.6	<3.8	<3.4	<3.6
Trivalent Chromium	Total	(mg/kg)	NE			9.98	10.4	9.72	9.57
Vanadium	Total	(mg/kg)	NE	14000	470	9.62	9.21	8.19	8.58
Zinc						48.5	197	41.8	50.9
Metals (SPLP)									
Silver	SPLP	(mg/l)	0.36	NE	NE	<0.01	<0.01	<0.01	<0.01
Arsenic	SPLP	(mg/l)	0.5	NE	NE	<0.004	<0.004	<0.004	<0.004
Barium	SPLP	(mg/l)	10	NE	NE	0.01	0.01	<0.01	0.02
Beryllium	SPLP	(mg/l)	0.04	NE	NE	<0.001	<0.001	<0.001	<0.001
Cadmium	SPLP	(mg/l)	0.05	NE	NE	<0.005	<0.005	<0.005	<0.005
Chromium	SPLP	(mg/l)	0.5	NE	NE	<0.01	<0.01	<0.01	<0.01
Copper	SPLP	(mg/l)		NE	NE	<0.01	<0.01	<0.01	<0.01
Nickel	SPLP	(mg/l)	1	NE	NE	<0.01	<0.01	<0.01	<0.01
Lead	SPLP	(mg/l)	0.15	NE	NE	<0.015	<0.015	<0.015	<0.015
Antimony	SPLP	(mg/l)		NE	NE	<0.005	<0.005	<0.005	0.007
Selenium	SPLP	(mg/l)	0.5	NE	NE	<0.02	<0.02	<0.02	<0.02
Thallium	SPLP	(mg/l)	0.05	NE	NE	0.008	0.007	<0.005	0.008
Vanadium	SPLP	(mg/l)		NE	NE	<0.01	<0.01	<0.01	<0.01
Zinc	SPLP	(mg/l)		NE	NE	0.02	0.01	0.02	0.0
Chromium, hexavalent		mg/kg				<0.45	<0.43	<0.44	<0.43
Total Cyanide		mg/kg				<0.56	<0.54	<0.55	<0.54

3/19/2008

River Core Sample Analysis Summary

CONSTITUENT						P/F	UNITS	GB PMC	I/C DEC	ResDEC	Sample ID									
Metals											A	B	C	D	E	F	G	H	I	
Silver	Total	(mg/kg)	NE	10000	340						<0.36	<0.38	<0.34	<0.36	<0.33	<0.38	<0.35	<0.46	<0.38	
Arsenic	Total	(mg/kg)	NE	10	10						<0.07	1	1.3	1.8	1.4	1.2	0.9	<0.09	1	
Barium	Total	(mg/kg)	NE	140000	4700						19	18.1	14.7	18	17.3	15.5	18.2	27.2	14.3	
Beryllium	Total	(mg/kg)	NE								<0.29	<0.3	<0.27	<0.29	<0.26	<0.3	<0.28	<0.37	<0.31	
Cadmium	Total	(mg/kg)	NE	1000	34						<0.36	<0.38	<0.34	<0.36	<0.33	<0.38	<0.35	<0.46	<0.38	
Chromium	Total	(mg/kg)	NE	100	100						9.98	10.4	9.72	9.57	9.72	8.53	9.44	14.4	8.1	
Copper	Total	(mg/kg)	NE								5.67	4.92	3.81	4.08	4.76	3.56	4.49	10.4	3.68	
Mercury	Total	(mg/kg)	NE	610	20						<0.06	<0.07	<0.07	<0.08	<0.07	<0.07	<0.07	<0.09	<0.08	
Nickel	Total	(mg/kg)	NE	7500	1400						12.6	13.6	11.7	13.6	13.1	12.4	13.2	13.4	11.5	
Lead	Total	(mg/kg)	NE	1000	500						6.83	7.19	6.37	6.35	6.5	6.03	6.08	2.8	5.2	
Antimony	Total	(mg/kg)	NE								<3.6	<3.8	<3.4	<3.6	<3.3	<3.8	<3.5	<4.6	<3.8	
Selenium	Total	(mg/kg)	NE	10000	340						<1.8	<1.9	<1.7	<1.8	<1.6	<1.9	<1.7	<2.3	<1.9	
Thallium	Total	(mg/kg)	NE	160	5.4						<3.6	<3.8	<3.4	<3.6	<3.3	<3.8	<3.5	<4.6	<3.8	
Trivalent Chromium	Total	(mg/kg)	NE								9.98	10.4	9.72	9.57	9.72	8.53	9.44	14.4	8.1	
Vanadium	Total	(mg/kg)	NE	14000	470						9.62	9.21	8.19	8.58	8.5	8.88	8.87	18.3	8.12	
Zinc											48.5	197	41.8	50.9	47.5	44.4	48.7	31.6	38.1	
Metals (SPLP)																				
Silver	SPLP	(mg/l)	0.36	NE	NE						<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Arsenic	SPLP	(mg/l)	0.5	NE	NE						<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	
Barium	SPLP	(mg/l)	10	NE	NE						0.01	0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	
Beryllium	SPLP	(mg/l)	0.04	NE	NE						<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Cadmium	SPLP	(mg/l)	0.05	NE	NE						<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Chromium	SPLP	(mg/l)	0.5	NE	NE						<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Copper	SPLP	(mg/l)		NE	NE						<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Nickel	SPLP	(mg/l)	1	NE	NE						<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Lead	SPLP	(mg/l)	0.15	NE	NE						<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	
Antimony	SPLP	(mg/l)		NE	NE						<0.005	<0.005	<0.005	0.007	<0.005	<0.005	<0.005	<0.005	0.007	
Selenium	SPLP	(mg/l)	0.5	NE	NE						<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
Thallium	SPLP	(mg/l)	0.05	NE	NE						0.008	0.007	<0.005	0.008	<0.005	0.005	0.007	<0.005	0.005	
Vanadium	SPLP	(mg/l)		NE	NE						<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Zinc	SPLP	(mg/l)		NE	NE						0.02	0.01	0.02	0.02	0.02	0.01	0.01	<0.01	0.02	
Chromium, hexavalent																				
Total Cyanide											<0.45	<0.43	<0.44	<0.43	<0.44	<0.45	<0.43	<0.43	<0.51	<0.44
Total Organic Carbon											<0.56	<0.54	<0.55	<0.54	<0.55	<0.57	<0.54	<0.54	1	<0.56
											<100	<100	<100	<100	<100	<100	<100	<100	<100	<100





Desk File

Middletown Power, LLC
P.O. Box 1001
Middletown, CT 06457

March 19, 2008

Mr. George Wisker
Department of Environmental Protection
79 Elm Street
Hartford, CT 06106-5127

Reference:

Testing Requirements for Upland Disposal. Letter from George Wisker, CT
DEP to NRG Middletown Power LLC received January 28, 2008.

Dear Mr. Wisker,

Middletown Power, LLC (NRG) hereby submits the river core sample analysis in support of the requirements set forth in the referenced memo.

A summary sheet has been provided comparing the analysis results with the Direct Exposure Criteria for both Industrial/Commercial and Residential levels.

As you know, we intend to use a portion of these dredge spoils as clean cover to comply with Connecticut Transfer Act remedial actions here on site.

Should you have any questions concerning these reports, please contact Robert Spooner, at 860-638-3102.

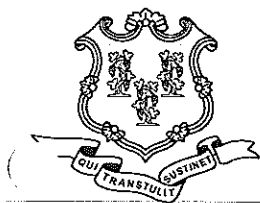
Very truly yours,
NRG Middletown Power, LLC

A handwritten signature in black ink, appearing to read "David Carpenter", is written over the typed name.

David Carpenter
Plant Manager

CC:
Gennady Shteynberg, CTDEP

Enclosures



STATE OF CONNECTICUT
DEPARTMENT OF ENVIRONMENTAL PROTECTION



April 10, 2008

Mr. Robert Spooner
NRG -Middletown Station
PO Box 1001
1866 River Road
Middletown, CT 06457

Re: Disposal of Dredged Material at the Former Ash Disposal Area

Dear Mr. Spooner:

Based on the test results of the Connecticut River core samples, it is appropriate to consider using the dredge material as a cover at the former Ash Disposal Area after additional analyzes in accordance with the 2004 Conceptual Remedial Action Plan (RAP) for the subject site.

The analytical results of the 9 cores from the locations recommended by Mr. George Wisker of the DEP's Office of Long Island Sound Programs have shown that the concentrations of the constituents analyzed are well below the applicable criteria promulgated in the Connecticut Remediation Standard Regulations (RSRs).

Please note that, in accordance with the 2004 RAP, the dredged material must be further analyzed at a frequency of 1 sample per 500 cubic yards of sediments to show compliance with the Industrial/Commercial Direct Exposure Criteria and Pollutant Mobility Criteria for GB class groundwater prior to placement sediments in the remediation cells.

If you have questions or comments, please contact me at 860 424-3283.

Sincerely

A handwritten signature in cursive script that reads "Gene Shteynberg".

Gene Shteynberg, Environmental Analyst 3
Remediation Division
Bureau of Water Protection and Land Reuse

Copy: David Carpenter, Middletown Station
Andrew Walker, Shaw Environmental, Inc., 88C Elm Street, Hopkinton, MA 01748
George Wisker, DEP, OLIS
Carlos Esguerra, DEP, OLIS
David McKeegan, WEED

Workspace/Centrdistr/Middletown/Middletown Station Ash Disposal Area Capping 0408